

Nowinski, J.

On a certain definition of the center of mass. In English. p. 113, Vol. 2, no. 3,
1954, BULLETIN, Dep't of Technical Sciences, Polish Academy of Sciences
SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), Vol. 4, No.9,
LC, Sept. 1955, Uncl.

NOWINSKI, Jerzy

Równania Siłki Wielkości Statycznych
dla Rolki na Podłożu Niejednorodnym o
Współczynniku Podatności Odśrodkowej
Stalym (Equations of Six Statical Quanti-
ties for Beams Resting on Unhomogeneous
Elastic Foundation Composed of Segments
of Constant Modulus). J. Nowinski and
J. Nowinski, Arch. Arch. Matematycznej
(Warsaw), No. 3, 1964, p. 339. In
Polish, with summaries in English and
Russian.

js

Nowiński, Jerzy

POL

Kilka Wybranych Zagadnień Teorii
Ciał Sprężystych Niejednorodnych (Some
Selected Problems of the Theory of
Heterogeneous Elastic Bodies). Jerzy
Nowiński. Arch. Mech. Stowarzyszenia

Wyd. No. 4, 1968, pp. 1007-1022. 24 refs.
In Polish, with summaries in English and
Russian. Investigation of approximate
method applied to such cases as laminar
dilatation and twisting of a bar,
stress in a thick-walled tube subjected
to external pressure and a hole in a ring, and
the stress in a semi-infinite plate.

80
MET

Nowinski Jerzy

Nowinski, Jerzy, and Olszak, Wacław. On the principles of the theory of physically non-linear elastic bodies. Arch. Mech. Stos. 6, 139-168 (1954). (Polish. Russian and English summaries) I - F/W

The authors propose a non-linear elastic stress-strain relation containing an additional second-order term in strain with an additional modulus, and develop on this basis one-dimensional equations of vibration and of bending, and some equations of plane strain. Considerations are limited to small strains, and do not refer to tensorial character of proposed relation, thus completely missing the "cross-elasticity" effects characteristic of the proposed relation.

A. M. Freudenthal (New York, N. Y.)

724458103
POL.

I - F/W

Iwinski, Tadeusz, and Nowinski, Jerzy, The transforms of differential equations of the theory of structures.
Arch. Mech. Stos. 6, 343-362 (1954). (Polish. Russian and English summaries)

The authors propose that in statics, where a concentrated force is considered as the limit of a uniform load and a concentrated moment as the limit moment of a couple, the transition to the limits be done in the Laplace-transformed equations rather than in the original formulation of the physical problem. The proposed procedure is illustrated by several examples of bending problems. M. Golomb.

JG *RLH*

Nowinski, Jerzy

3

Wlinski, Tadeusz, and Nowinski, Jerzy. Equations of six static quantities for beams resting on an inhomogeneous elastic foundation composed of segments of constant modulus. Arch. Mech. Stos. G. 389-411 (1954). (Polish. Russian and English summaries.) I - F/W

The authors consider a beam of n segments of different rigidity resting on an elastic foundation consisting also of $n-1$ segments of different elastic modulus. There are then n points of discontinuity in the beam and in the foundation and the points in the beam coincide with the points in the foundation. The authors make use of Winkler's hypothesis which assumes that a deflection of a beam on an elastic foundation equals the negative ratio of the reaction of the foundation divided by the modulus of the foundation, and also satisfies a certain fourth-order differential equation. [The authors make no reference; the reviewer suggests

qu

(over)

(1)

IWINSKI,

E. Winkler, Die Lehre von der Elastizität and Festigkeit, Prag, 1897]. This problem of a non-homogeneous beam resting on a homogeneous foundation by selecting one segment of the beam and replacing the influence of segments to the right and to the left by one force and one moment acting at each end. Of course every segment has to be treated in a similar way, which leads to $2s$ linear equations called by the authors "the equations of six statical quantities". The authors found that this system cannot be divided into two systems in s unknowns each; therefore it is not possible to establish a five-moments equation. In order to solve the problem they developed an approximate five-moments equation which gives in certain cases sufficiently exact solutions. The theory is illustrated with a numerical example. *T. Leser.*

W

W

NOWINSKI, Jerzy

Podstawy Teorii Plastyczności; Siedem
Wykładów (Basic Principles of the Theory
of Plasticity; Seven Lectures). I. Jerzy
Nowinski. *Koptywy Inżynierskie* (War-
saw), No. 17, 1964, pp. 69-141. 10 refs.
In Polish, with summaries in English and
Russian. Lecturer given at the Inst. of
Math. of the Polish Acad. of Sci. during
1961.

287

Nowinski, Jerzy.

✓ Nowiński, Jerzy. A historical survey of the theory of
elasticity. Rozprawy Inż. 3, 57-78 (1955). (Polish. I = F/W
Russian and English summaries)

gpb

NOWINSKI, J.

✓
HN Note on the Definition of Homogeneity
and Heterogeneity of Elastic Curvilinearly
Anisotropic Bodies. J. Nowinski
Bul. Acad. Polonaise Sci. (Warsaw) No.
3, 1955, pp. 135-138.

[Handwritten signature]

Nowinski Jerzy

3

V CIEPLNE STANY NAPRĘŻENIA W GRUBOŚC-
IENNYM NACZYNIU KULISTYM, KTÓREGO MATE-
RIAL PRZEJAWIA TZW. IZOTROPIĘ POPR-
ZECZNĄ (THERMAL STRESSES IN A THICK-
WALLED SPHERICAL VESSEL OF TRANSVER-
SALLY ISOTROPIC MATERIAL). Jerzy Nowiński.
Arch. Mech. Stosowanej (Warsaw), No. 3, 1955,
pp. 363--374. In Polish, with summaries in Eng-
lish and Russian. Graphical study of the tempera-
ture distribution symmetrical in respect to the
center in a spherically anisotropic vessel under
steady heat flow; calculation of values of constants
and stresses applying the Young modulus equal to
the modulus of anisotropy.

ggp Jan

NOWINSKI, J.

✓ 3581. Nowinski, J., Thin-walled doubly curved structural elements with high taper (In Polish), *Arch. Mech. spoz.* 7, 4, 533-560, 1955.

The theory developed is based on the assumption that the cross sections are rigid in their planes, and that the axis of the beam is perpendicular to a plane of fixture; the middle surface of the skin presents a surface of revolution.

The skin is assumed to be very thin, which permits neglect of its flexural and torsional rigidities and the assumption of a membrane state of stress not exceeding values which would cause buckling or yielding of the shell.

Considering the rotation of the cross sections about x , y , and z -axes, and taking into account translations and warping of the cross sections, deformations of the beam are determined. After determining the shearing strain and the unit elongations in the circumferential and meridional direction, stresses are found on the assumption that the material of the shell is curvilinearly orthotropic. Subsequently, the differential and integral equations of equilibrium are derived, and self-equilibrating stress systems are used.

After examining torsion and bending of the beam, author investigates an example of a spherical shell loaded with concentrated force at the top.

Comparison with prior investigations shows that the consideration of the double curvature of the shell and of its high taper presents a generalization of the well-known theory of thin-walled conical beams with small taper.

J. Ruzicki, Poland

VMIK

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Nowinski, J.

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Elementary Stress System in a Swept
Thin-Walled Tube with High Taper. J.
Nowinski, *Bull. Acad. Polonaise Sci.*
Warszawa, No. 1, 1956, pp. 3-8. Applica-
tion of a method for the derivation of an
exact equation to the problem of elasto-
plastic stability in three-dimensional,
uniformly convergent beams.

VAK

LFH

NOWINSKI, J.

Note on the definition of homogeneity and heterogeneity of elastic
curvilinearly anisotropic bodies. In English. p. 135.
ODZIEZ, Lodz. Vol. 3, no. 3, Mar. -May 1956.

SOURCE: East European Acession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

Nowinski, J.

A Problem of Non-Uniform Torsion of
Prismatic Bars, Solved in Terms of
Stresses. J. Nowinski. *Bull. Acad. Polonaise
Sci. (Warsaw)*, No. 3, 1956, pp.
139-144.

VMA

Nowinski, J.

1381. Nowinski, J., Elementary stress system in a swept thin-walled tube with high taper, *Inst. Acad. Polonaise Sci.* 4, i, 3-8, 1956.

Struct

In view of the mathematical difficulties encountered in the determination of stresses and strains in swept beams with high taper, author proposes that an elementary "strength of materials" type of approach might often be sufficiently accurate to give an estimate of the order of magnitude of the quantities investigated.

The case treated in detail is that of a thin-walled cantilever tapered tube with rigid diaphragms parallel to the end cross sections. There is no experimental check of the analytical results. The calculated forces along the edges of the horizontal and side walls of the tube were compared with results obtained previously by a more exact treatment. The discrepancies were of the order of 4% and 43%, respectively. Y.-H. Pao, USA

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YH Pao

NOWINSKI, J.

IBAN WAGNER Cylindrical Tube with
Cross-sections. Logical Arithmetic
S. Wagner
1971

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NOWINSKI, J.

Distr: 4E2c

1-FW

6832:

Nowinski, Jerzy. An approximate theory of bending and torsion of straight solid bars. *Rozprawy Inz.* 4 (1956), 325-348. (Polish. Russian and English summaries)

2
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A theory of bending, torsion and shear of straight bars of solid (circular, elliptic, rectangular and narrow symmetrical) cross-section is developed on the basis of two simplifying assumptions: (1) uniform warping of the cross-section along the axis of the bar, (2) transversal orthotropy of the material of such a type that cross-sections behave as rigid in their planes ($\nu=0$).

A. M. Freudenthal (New York, N.Y.)

ipr

1-PW

Nowiński, Jerzy. Application of the Laplace transformation for the determination of arch deflection. *Rozprawy Inż.* 4 (1956), 413-428. (Polish. Russian and English summaries)

2
The author considers a one-dimensional problem of a parabolic arch of small curvature and of small rise to span ratio. He derives differential equations, one for small deflections and one for large deflections, and solves these equations by applying the Laplace transformation. The solutions are called "the general equations for arch deflection", in which the load consists of distributed and concentrated forces and of moments. The author gives a numerical example of a doubly hinged arch loaded by a concentrated force acting at the key and compares the results obtained by the small and by the large deflection formula.

T. Leser (Aberdeen, Md.)

NOWINSKI, JERZY

Nowinski, Jerzy. Application of the Laplace transform
to problems of torsion of thin-walled tubes

Arch. Mech. Stos. 8 (1956), 111-115. (Polish. Russian and English summaries)

Applying the Laplace transform to the results of W. Z. Vlasov's "Theory of thin-walled tubes" (Stroiizdat, Moscow, 1940), the author derives the equation for the angle of twist of a thin-walled tube subject to the action of a torque. Two cases are considered: uniformly distributed torque, m_0 , and a concentrated torque. The numerical example in the first case gives the magnitude of the angle of twist in the middle of a tube supported at both ends equal to $0.209 m_0$ (Ritz's method gives $0.211 m_0$).
M. Z. Krzywoblocki (Urbana, Ill.)

Phy
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Math

Jan 1957

NOWINSKI, JERZY

✓ ZASTOSOWANIE NIEKTÓRYCH ZNANYCH
METOD PRZYBLIŻONYCH DO ROZWIĄZANIA
ZAGADNIENI PŁYT ORTOTROPOWYCH O DUŻYCH
UGIĘCIACH. Jerzy Nowinski, Rozprawy Inżynier-
skie, No. 2, 1957, pp. 331-354 In Polish, with
summaries in English and Russian. Application of
methods proposed by Prescott, Timoshenko, and
Föppl to the problems concerning orthotropic plates
with large deflections. A circular cylindrical or-
thotropic plate bent into a portion of a spherical
surface, with the same deflection surface as a cy-
lindrically orthotropic plate subject to uniform load,
is considered. Also studied are a circular cylin-
drical orthotropic plate on a hinged support and uni-
formly loaded, and an elliptical rectilinear ortho-
tropic plate uniformly loaded and resting on a
hinged support.

ghm amg

NOWINSKI, JERZY

3

✓ THE PRINCIPLE OF STATIONARY FREE ENERGY IN THE THERMOELASTIC ANALYSIS OF THIN-WALLED TUBES. Jerzy Nowinski Arch. Mech. *about*
Bdrowski, Me. 1, 1961, pp. 107-108. Derivation of a solution of the thermoelastic problem by direct establishment of differential and integral conditions of equilibrium.

JM any

Nawitiski, Jerry. Application of some familiar approximate methods to problems concerning orthotropic plates with large deflections. Rozprawy Inz. 5 (1957), 331-354. (Polish. Russian and English summaries) 2

In the case of large deflections the non-linear terms in the system of equations for plates cannot be neglected. For isotropic plates, approximate methods for solving this non-linear system of equations are well known. Applying some of these well known methods to the system of non-linear equations controlling orthotropic plates, the author solves the system for several different cases. He begins his paper by stating the Rostovcev system of equations for orthotropic plates, both in rectangular and polar coordinates, as given by S. G. Lechnicki, [Anisotropic plates, OGIZ, Moscow-Leningrad, 1947; MR 10, 415]. He then solves the following cases. 1. a circular cylindrically orthotropic plate bent into a portion of a spherical surface. 2. a freely supported circular cylindrically orthotropic plate with deflections equal to those computed by linear theory (applicable for small deflections) for uniformly distributed load. As expected, the loads computed by the non-linear theory are not uniform. 3. a circular cylindrically orthotropic plate on a hinged support, uniformly loaded. 4. a rectilinearly orthotropic elliptic plate on a hinged support, uniformly loaded. 5. a rectangular orthotropic plate uniformly loaded, with

Nowiński, Jerzy

supports which prevent horizontal displacements (edges fixed in the horizontal plane). In cases 3, 4, 5, the author applied the pseudo-energy method introduced by J. Prescott (Applied elasticity, Longmans-Green, London, 1924). 6. a freely supported square orthotropic plate,

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uniformly loaded. 7. a square orthotropic plate supported on hinges and uniformly loaded. For the last two cases, the author applied the energy method introduced by A. and L. Föppl and described by S. Timoshenko [Theory of plates and shells, McGraw-Hill, New York, 1940].

T. Leser (Aberdeen, Md.)

Calp

Sj
42

Nowinski, J.

Distr: 4F1

26

802. Nowinski, J. The torsion of a bar with cross section in the form of an annular sector, one cross section remaining plane (in Polish), *Arch. Mech. Stat.* 9, 1, 73-87, 1957.

A three-dimensional problem of torsion of a bar with an open cross section is considered, one of the end cross sections not being allowed to warp. Consequently, longitudinal stresses appear, so that to the classical solution of Saint Venant a self-equilibrated system should be added, enabling the condition of hampered warping to be realized. Of the four parameters of the self-equilibrated system, three are determined by means of the principle of least-square deviation of the resultant warping (obtained as a result of superposition of the classical system and the self-equilibrated system). For the remaining parameter the variational principle of Castigliano is used.

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The values of the parameters for the entire useful range of variability of relative thicknesses, $4 = 8/r_0$, are given in the form of tables and diagrams. A numerical example for $\alpha = 0.1$ and $\nu = 0.3$ is presented. It follows that the stress of the self-equilibrated system in the neighborhood of the fixed end is of the order of the Saint-Venant stress. The resultant shear stress in the middle of the longer of the curved sides exceeds the Saint-Venant stress by about 50%, the normal stress being $1 \frac{2}{3}$ times as high as the maximum classical shear stress.

An approximate stress function and, also, variational principles being used, the solution is of an approximate character.

J. Naleszkiewicz, Poland

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JLM

NOWINSKI, JERZY

5
1-F/W

Nowinski, Jerzy. States of stress in an orthotropic thick-walled tube surrounded by an elastic medium. The Galerkin problem for an orthotropic material. Arch. Mech. Stos. 9 (1957), 217-226. (Polish and Russian summaries)

The paper is concerned with the states of stress and deformation in an orthotropic thick-walled elastic tube. It is assumed that the principal directions of elastic and thermal orthotropy coincide with the radial and circumferential directions. Under this assumption, the problem reduces to the solution of a simple linear ordinary differential equation.

E. T. Onat (Providence, R.I.)

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Distr: 481

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NOBINSKI, JEZY

✓
Nowinski, Jerzy. The principle of stationary free energy
in the thermoelastic analysis of thin-walled tubes.
Arch. Mech. Stos. 9 (1957), 359-368. (Polish and
Russian summaries)

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1-F/W
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The author considers thin-walled tubes with an arbitrary steady temperature distribution and subject to arbitrary steady external loads producing shear, bending, and torsion. Within the usual approximations of the linear theory he derives the differential equations and the boundary conditions for the deformation of the tube from a variational principle. This principle states that the total free energy is a minimum in the state of equilibrium.
W. Noll (Pittsburgh, Pa.).

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Distr: 4F1

Adgo

NOWINSKI, Jerzy

Iwiński, Tadeusz; and Nowiński, Jerzy. The problem of large deflections of orthotropic plates. *Pol. Arch. Mech. Stos.* 9 (1957), 593-603. (Polish and Russian summaries)

3

A generalization is presented of the procedure of H. M. Berger to the case of orthotropic plates. The method neglects the so-called second strain invariant of the middle plane strain in the expression for unit strain energy. Results are obtained for a circular plate uniformly loaded for a particular value of orthotropy. The results are compared with an approximate solution obtained by means of a pseudo-energy equation. Fair agreement between the two results is found. The numerical results are given for deflections up to about 1.5 plate thicknesses.

S. Levy (Washington, D.C.)

APP

OLSZFWSKI, Eugeniusz; NOWINSKI, Jerzy

Results of tympanoplasty with the use of a free skin graft in the external ear canal. Otolaryng. pol. 18 no.1:79-82 '64.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Krakowie (Kierownik: prof. dr J. Miodonski (deceased)).

NOWINSKI, Jerzy

A simple device for the regulation of negative pressure in
suction pipette. Otolaryng. 1971. 24: 499-501.

1. Z Kliniki Otolaryngologicznej i Laryngologii Medycyny
Krakowie (p.o. Kierownika: dr. hab. M. Jank).
/

NOWINSKI, MARJAN

Zwalczajac chwasty, podnosimy plony. Warszawa, Panstwowy Instytut Wydawn. Rolniczych, 1950. 50 p. (Biblioteka rolnicza gromady) (Increasing agricultural crops by combating weeds)

DA

NOT IN DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

NOWINSKI, MARIAN

ADAMCIC, Franciszek; NOWINSKI, Marian

Achievements of the State Scientific Institute of Pharmacognosy
in Poznan. *Pharmacja* 10 no.4:97-101 Ap '54. (REAL 3:7)

(PLANTS,

*pharmacognosy in Poland)

M

Country : POLAND
Category: Cultivated Plants. Commercial. Oil-Bearing.
Sugar-Bearing.

Abs Jour: RZhBiol., No 11, 1958, No 49053

Author : Kozlowski, Jan.; Nowinski, Marian
Inst : Inst. of Medicinal Plants
Title : Experimental Studies of Different Kinds of Castor
Oil Plants.

Orig Pub: Diul. Inst. rosl. leczn , 1957, 3, No 2, 107-114

Abstract: In field tests in the years 1954 and 1955, four
kinds of castor oil plants were studied: Dorovskiy,
Plevisskiy, Pulavskiy and No 6 varieties. Plevisskiy
and Pulavskiy yielded the greatest harvests. Variety
No. 6 has slightly lower harvests, however, the seeds
do not drop. The lowest harvests are reported from

Card : 1/2

M-128

SCOTT :
CATEGORY : Cultivated plants. Medicinal. Essential Oil. M
ABS. JOUR. : Toxio.
: EZhBiol., No. 3, 1959, No. 11160
AUTHOR : Nowinski, E.
INST. :
TITLE : Growth, Medicinal plants.
ORIG. PUB. : Biol. Inst. Ross. Akad., 1958, 4, No. 1, 77-81
ABSTRACT : No abstract.

CARD: 1/1

NOWINSKI, MARIAN.

Rosliny lecznicze flory polskiej.

Poznan, Poland. Panstwowe Wydawn. Naukowe 1959, 279p.

Monthly List of European Accessions (EML) LC, Vol. 8, no. 7, July 1959

Uncl.

NOWINSKI, M.

Again on the danger of chemical contamination of environment, food, and people. p. 117

EKOLOGIA POLSKA. SERIA B. (Polska Akademia Nauk. Komitet Ekologiczny
Warszawa, Poland. Vol. 5, no. 2, 1959

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960

Uncl.

NOWINSKI, M.

Laserwort (Laserpitium archangelica) on Babia Gora. p. 7

CHRONMY PRZYRODE OJCZYSTA. (panstwowa Rada Ochrony Przyrody)
Krakow. Vol. 15, no. 1, Jan./Feb. 1959
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

NOWINSKI, Marian

More remarks on the problem of sedge weeds. Postepy nauk roln 7
no.3:153-158 My-Je '60. (EEAI 9:12)
(Poland--Sedge)

NOWINSKI, Marian

The present state of studies on allelopathy. Postepy nauk roln 8 no.3:
39-57 My-Je '61.

KOZŁOWSKI, Jan, dr ; NOWIŃSKI, Marian, doc. dr

Influence of coordinated culture of peppermint and phytoncide plants upon the occurring of rust and on the volatile oil content in peppermint leaves. Inst przem ziel Biul 8 no.1/2:53-64, Mr-Je '62.

1. Zakład Botaniki Stosowanej i Aklimatyzacji, Instytut Przemysłu Zielarskiego, Poznań. Kierownik Zakładu: dr J.Kozłowski.

NOWINSKI, Marian

Some remarks in connection with S. Klarner's paper on the Problem of developing the production of plant control agents in Poland in the light of the needs of agriculture and economic aspects. Postepy nauk roln 11 no. 1:117-125 Ja-3 '64.

NOWINSKI, Marian

Segetal weeds in Zegiestow and its vicinity in the Beskids
near Nowy Sacz. Prace nauk roln i lea. 19 no.1:119-149 '65.

1. Department of Botany of the School of Agriculture, Poznan.

NOWINSKI, Marian, doc. dr

Strange translations. *Problemy* 21 no. 3: 183-184, 195.

1. Head, Department of Botany, School of Agriculture, Poznan

ZABOROWSKI, Gustaw; ~~NOWINSKI, Rydzard~~

Effect of cold work and heat treatment on the Curie temperature and the temperature coefficient of the elasticity modulus of the Ni-SPAN C Elinvar type alloy. Mechanika Gliwice no.16: 91-95 '62.

1. Instytut Metali Niezależnych, Gliwice.

MORAWIEC, Henryk, mgr inz.; NOWINSKI, Ryszard, mgr inz.

Roentgenographic testing of the size of grain. Rudy i metale
8 no.6:213-217 Je '63.

NOWINSKI, S.; REZMAR, M.

"Some Opinions Contributed to a Discussion about Chemik." p. 311 (CHEMIK
ol. 7, No. 11, Nov. 1954; Katowice, Poland.)

So: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, No. 4,
April 1955, "incl..

WINSKI, S.

Some reflections on higher studies. p. 179.
CHEMIK, Katowice, Vol. 8, no. 6, June 1955.

SO: Monthly List of East European Accessions, (MELA), LC, Vol. 2, no. 1, Oct. 1955,
Uncl.

NOWINSKI, S.

Improving the quality of glass equipment in laboratories. p. 219.
CHEMIK. Katowice. Vol. 8, no. 7/8, July/Aug. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

NOWINSKI, S.

S. Fajnberg's Analiza rud metali niezelaznych (Analysis of Ores of nonferrous Metals); a book review.

P. 32. (CHEMIK) (Warszawa, Poland) Vol. 10, no. 1, Jan. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. ", No. 5, 1958

NOWINSKI, J.

C. Schildknecht's Polimery winylowe (Vinyl polymers); a book review.

P. 33. (CHEMIK) (Warszawa, Poland) Vol. 10, no. 1, Jan. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

NOWINSKI, S.

"V. Kiselev and A. Abraszkina's Produkcja lakierow, pokostow i farb (Production of Lacquers, Varnishes, and Paints); a book review."

p. (3) of cover (Chemik) Vol. 10, no. 2, Feb. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

NOJINSKI, S.

"K. Graczev's Akumulatory zasadowe (Storage Batteries); a book review."

p. (3) of cover (Chemik) Vol. 10, no. 2, Feb. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

~~NOWINSKI, S.~~

"Reagents still scarce."

p. 48 (Chemik) Vol. 10, no. 2, Feb. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (MEAI) LC. Vol. 7, no. 4,
April 1958

NOWINSKI, S.

"Z. Zagorski's Metoda polarograficzna w analizie chemicznej (Polarographic Method in Chemical Analysis); a book review."

p. 64 (Chemik) Vol. 10, no. 2, Feb. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (MEAI) LC. Vol. 7, no. 4,
April 1958

S/196/62/000/005/006/012
E194/E154

11 3900
AUTHOR:
TITLE:

Nowinski, Tadeusz

The physical interaction between liquid phases of metal and water

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.5, 1962, 39, abstract 5 G317. (Ochrona pracy, v.16, no.7, 1961, 8-14. (Polish with summaries in Russian and English)).

TEXT: There is a risk of explosion when liquid metal comes into contact with water or wet materials, or even when the liquid metal is separated from the water by a heat conducting wall which is insufficiently strong or does not make a good enough seal. Because of its high thermal conductivity and because it can be heated to a high temperature without the rise of pressure, liquid metal is used as a heat transfer medium when large quantities of heat must be removed rapidly as in some kinds of nuclear reactors and for cooling gas turbine blades. The explosive effect is due to the heat stored in the liquid metal and to a number of physical factors which were studied on a
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The physical interaction between ... S/196/62/000/005/006/012
E194/E154

special experimental rig. The following tests were made: liquid metal dropping from a crucible; a jet of liquid metal striking water; liquid metal immersed in water; liquid metal solidifying on the bottom of a water tank; explosions of differing intensities. A total of 880 tests was made with aluminium alloy and a few with magnesium alloy. Explosions occur when liquid metal at a temperature of 700-900 °C penetrates to the bottom of a tank with the depth of water less than 25 cm and temperature below 50 °C. Of importance is the relationship between the rate of flow of the liquid metal particles and the size of the hole through which the metal pours, as also is the height of the hole above the water surface. The special concept of 'kinematic defect of mass concentration' is introduced. A protective layer of oil or of bituminous base paint on the bottom and walls of the tank protects against the formation of a steam cushion which promotes explosion. 7 figures, 5 literature references.

[Abstractor's note: Complete translation.]

Card 2/2

V
A

PASZKOWSKI, Bohdan; WOLINSKI, Wieslaw; ADAMOWICZ, Tadeusz; NOWISKI, Marian;
STEFANIAK, Tadeusz; KOWALSKI, Andrzej

The He-Ne gas laser of the Warsaw Technical University. Przegl
elektroniki 5 no.7:313-319 J1 '64.

1. Department of Electronic Instruments, Technical University,
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prof. J. Lesinski.

(MASTITIS, ther.

penicillin in puerperium (Pol))

(PUREPRIUM, compl.

mastitis, ther., penicillin (Pol))

(PENICILLIN, ther. use

mastitis in puerperium (Pol))

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(MASTITIS prev & control)

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(OVARY) (TESTIS)

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(OVARY) (TESTIS)

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J.Lesinski; Dyrektor Instytutu: prof.dr.med. B.Gornicki.

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(OVARY) (STREPTOMYCIN) (AMINOSALICYLIC ACID)
(ISONIAZID) (CATALASE)

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(ISONIAZID) (TESTIS) (OVARY)

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determ., paper chromatography, diag. value (Pol))

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(AMINO ACIDS urine)

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(HYSTEROSALPINGOGRAPHY

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WELLPREDNER, [illegible]

[illegible]
Ginek. [illegible] [illegible]

1. [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

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